Fall 2018 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

OTOGOG	Overall LMA	Total LMA						
ST0006		Miles						
Sutter Maintenance Yard Nelson Bend	Rating							
	U	0.50						
Rated Item		Maintena	nce Deficiency		Enforc	ement	Design & System Obsolescence	
Nated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Vegetation	0.06	0.84	3.42	687.99%				
Trim / Thin Trees		0.74	2.96	595.45%				
Encroachments						0.08		
LMA Totals:	0.06	1.58	6.38	1283.44%	0.00	0.08	0.00	0.00
Unit No. 01 Feather River West Levee -	Overall Unit	Total Unit						
Nelson Bend	Rating	Miles						
							Decign	2 System
Nelson Bend ST0006	Rating	Miles 0.50	nce Deficiency		Enforc	ement	Design & Obsole	& System scence
Nelson Bend	Rating	Miles 0.50	nce Deficiency	Threshold %	Enforce M Miles			scence
Nelson Bend ST0006	Rating U	Miles 0.50 Maintena		Threshold %			Obsole	scence
Nelson Bend ST0006 Rated Item	Rating U	Miles 0.50 Maintena		Threshold % 687.99%			Obsole	scence
Nelson Bend ST0006 Rated Item Earthen Levee	Rating U M Miles	Miles 0.50 Maintena U Miles	M + 4U Miles				Obsole	scence
Nelson Bend ST0006 Rated Item Earthen Levee Vegetation	Rating U M Miles	Miles 0.50 Maintena U Miles 0.84	M + 4U Miles 3.42	687.99%			Obsole	scence

Winter **

Flood Control Project Maintenance Levee Inspections

LMA District Cover Sheet

Fall 2018 Levee Inspection Results

Sutter Maintenance Yard Nelson Bend

Summer **

Fall

Spring

	(March - May)	(June - August)	(September - November)	(December - February)
† Overall LMA Rating (Fall Only)			U	
•	** Non-receipt of Summ Reports may effect or	· ·		
† SPRING INSPECTIONS: Overall maintenance deficiencies are rated				ual maintenance
FALL INSPECTIONS: The overall maintena within the attached un			tion and maintenance de ended to be an indiction o	
Comments				

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Sutter Maintenance Yard Nelson Bend

Waterway	Bank	Unit Miles
Unit No. 01 Feather River West Levee - Nelson Bend		0.50

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	4/4/2018 - 4/4/2018		9/18/2018 - 9/18/2018	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Steve Beckley		Steve Beckley	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Nelson Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/18/2018 09/18/2018	Sterling York

LM Start		Rating **	Α	Issue No.		9	
LM End		Issue Type +	Ма	Location *		CR	
Category	Catagory Earthen Levee					de/Longitude	
Calegory				Start		End	
Item		s & Maintenaı	nce		0		0
пеш	Manuals				0		0
DWR ID	DWR_ST00	006_01_s _ 201	4_9				
		Comn	nent Cod	le			
		Inspecto	or Comm	ent			
Sutter Maintenance Yard has copies of the O&M manuals.							

No Photos

Rating ** Issue No. Α LM Start 10 Location * LM End Issue Type + Ма CR Earthen Levee GPS Latitude/Longitude Category Start End Emergency Supplies & Item Equipment DWR_ST0006_01_s _ 2014_10 DWR ID Comment Code

No Photos

Inspector Comment

Sutter Maintenance Yard has flood fight supplies on hand at their equipment yard.

LM Start		Rating **	Α	Issue No.		11	
LM End		Issue Type +	Ма	Location *		CR	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Flood Pre	paredness &	Training		0		0
item					0		0
DWR ID	DWR_ST00	006_01_s _ 201	4_11				
		Comn	nent Cod	le			
	Inspector Comment						
Sutter Mai	ntenance \	Yard has atter	nded floo	d fight train	ing.		

No Photos

* Location LS : Land Side CR : Crown

N/A: Not Applicable

WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Nelson Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/18/2018 09/18/2018	Sterling York

LM Start	0.00	Rating **	U	Issue No.		7
LM End	0.00	Issue Type +	En	Location *		CR
Category	Earthen L	evee	GPS Latitude/Longitud			
Calegory				Start		End
Item	Encroach	ments		38.8870	59°	38.887059°
пеш				-121.6147	15°	-121.614715°
DWR ID	DWR_ST0	006_01_f _ 2012	2_7			

FE : Fence

Inspector Comment

Comment Code

A landowner has constructed a gate on the crown that hinders inspection of this unit. Met with landowner to perform spring 2015 inspection, and he should be contacted to open the gate for future inspections. The land owner is David Lowry his phone number is (925) 606-2403. He will open the gate for inspections but will not allow the LMA to put a lock on the gate, and the LMA does not do any maintenance to this levee.

Photo 1 of 1: FA_2018_ST0006_471_7_20180918_00004.jpg



View of fence and gate at the upstream end of the levee, only the land owner has the key for the lock on the gate. Spring 2018.

LM Start	0.02	Rating **	U	Issue No.		15	
LM End	0.42	Issue Type +	Ma	Location *	WS		
Category	Earthen L	evee	GPS La	atitud	le/Longitude		
Calegory		Start		End			
Item	Vegetatio	n		38.8868	83°	38.881287°	
item				-121.6147	97°	-121.614490 °	
DWR ID DWR_ST0006_01_f _ 2015_15							
Comment Code							

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Remove the annual vegetation and wild growth. Fall 2018.

Photo 1 of 2: FA_2018_ST0006_471_15_20181003_00014.jpg



View of the vegetation along the waterside slope looking downstream, Fall 2018.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Nelson Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/18/2018 09/18/2018	Sterling York

LM Start	0.02	Rating **	U	Issue No.		15 (cont)
LM End	0.42	Issue Type +	Ма	Location *	WS	
Category Earthen Levee				GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Vegetatio	n		38.8868	83°	38.881287°
item				-121.6147	97°	-121.614490 °
DWR ID DWR_ST0006_01_f _ 2015_15						

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Remove the annual vegetation and wild growth. Fall 2018.



View of the vegetation along the waterside slope looking downstream, Spring 2018.

Photo 1 of 2: FA_2018_ST0006_471_2_20181003_00015.jpg

LM Start	0.02	Rating **	U	Issue No.		2		
LM End	0.46	Issue Type +	Ма	Location *	LS			
Category	Earthen L		GPS Latitude/Longitude					
			Start		End			
Item	Vegetation			38.8868	83°	38.880833°		
пеш				-121.6147	97°	-121.614387°		
DWR ID	DWR_ST0006_01_f _ 2015_2							
Comment Code								

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

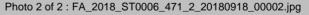
Inspector Comment

Remove the annual vegetation and wild growth. Fall 2018.

1000		4 7 6 6	N
		No.	
	Mary Control	A. 5	
			神教
			FIRST STATE
		78 F. 4	
			7688 T
		09 18	2018
of the vegetation ale	na the landaide a	long looking d	ownotroor

View of the vegetation along the landside slope looking downstream, Fall 2018.

LM Start 0.02 Rating ** U Issue No. 2 (cont) LM End 0.46 Issue Type + Ma Location * LS





View of the vegetation along the landside slope looking downstream, Spring 2018.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Nelson Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/18/2018 09/18/2018	Sterling York

LM Start	0.06	Rating **	М	Issue No.		4			
LM End	0.06	Issue Type +	Ma	Location *		WS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
			Start		End				
Item	Vegetation			38.8862	.77°	38.886277°			
пеш			-121.615129°		-121.615129°				
DWR ID	DWR ID DWR_ST0006_01_s _ 2012_4								
		Comn	nent Cod	de					
V4 : Elderk	perries are	blocking visib	ility and	flood fight	capa	bility.			
		Inspecto	or Comm	nent					
		•							
Elderberrie	Elderberries are partially blocking visibility.								

No Photos

LM Start	0.13	Rating **	U	Issue No.		1		
LM End	0.50	Issue Type +	Ма	Location *	WS			
Category	Earthen Levee			GPS Lat	itud	e/Longitude		
				Start		End		
Item	Trim / Thin Trees			38.88539	6°	38.880295 °		
item				-121.61559	5°	-121.614147°		
DWR ID	DWR_ST0	006_01_f _ 2017	7_1					
Comment Code								

T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

Trim up the trees 5 feet for access and visibility, Fall 2018.

LM Start	0.13	Rating **	U	Issue No.	1 (cont)
LM End	0.50	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : FA_2018_ST0006_471_1_20181003_00016.jpg



View looking downstream waterside of the over growth of trees, Fall 2018.

Photo 2 of 2: FA_2018_ST0006_471_1_20180918_00001.jpg



View looking downstream waterside of the over growth of trees, Spring 2018.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Nelson Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/18/2018 09/18/2018	Sterling York

LM Start	0.13	Rating **	U	Issue No.		3		
LM End	0.50	Issue Type +	Ма	Location *	LS			
Category	Earthen Levee			GPS La	atitude	e/Longitude		
			Start		End			
Item	Trim / Thin Trees			38.8853	96°	38.880295		
пеш				-121.6155	95 °	-121.614147		
DWR ID	DWR_ST0	DWR_ST0006_01_f _ 2017_3						
Comment Code								

T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

Trim up the trees 5 feet for access and visibility, Fall 2018.

LM Start	0.13	Rating **	U	Issue No.	3 (cont)
LM End	0.50	Issue Type +	Ма	Location *	LS



View looking downstream landside of the over growth of trees, Fall 2018.

Photo 2 of 2: FA_2018_ST0006_471_3_20180918_00003.jpg



View looking downstream landside of the over growth of trees, Spring 2018.

LM Start	0.15	Rating **	М	Issue No.		5	_	
LM End	0.15	Issue Type +	Ма	Location *	WS		_	
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Calegory				Start		End		
Item	Vegetation			38.8851	00°	38.885100	0	
item		-121.6157	'22 °	-121.615722	0			
DWR ID	DWR ID DWR_ST0006_01_s _ 2012_5							
		Comn	nent Coc	de				
V4 : Elderberries are blocking visibility and flood fight capability.								
Inspector Comment								
Elderberries are partially blocking visibility.								

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Nelson Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/18/2018 09/18/2018	Sterling York

LM Start	0.16	Rating **	М	Issue No.		12	
LM End	0.16	Issue Type +	Ма	Location *		WS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Vegetatio	n		38.88494	6°	38.884946°	
пеш				-121.61576	î1°	-121.615761 °	
DWR ID	ID DWR_ST0006_01_s _ 2015_12						
Comment Code							

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Elderberries are partially blocking visibility.

Issue No. Rating ** 0.18 М LM Start 13 0.18 Issue Type + Location * WS LM End Earthen Levee GPS Latitude/Longitude Category Start End Vegetation 38.884577° 38.884577° Item -121.615761° -121.615761° DWR_ST0006_01_s _ 2015_13 DWR ID Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Elderberries are partially blocking visibility.

No Photos

No Photos

LM Start	0.21	Rating **	M	Issue No.		14		
LM End	0.21	Issue Type +	Ma	Location *		WS		
Category	Earthen Levee			GPS Latitude/Longitude				
Category				Start		End		
Item	Vegetation			38.88415	1 °	38.884151	0	
item				-121.61573	2°	-121.615732	0	
DWR ID	DWR_ST00	006_01_s _ 201	5_14					
Comment Code								

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Elderberries are partially blocking visibility.

No Photos

* Location

LS: Land Side N/A: Not Applicable

WS: Water Side

A : Acceptable
M : Minimally Acceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

U : Unacceptable

Wednesday, December 26, 2018 17:48

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Nelson Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/18/2018 09/18/2018	Sterling York

LM Start	0.34	Rating **	М	Issue No.		6	
LM End	0.34	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	titud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		38.8823	98 °	38.882398 °	
пеш			-121.61496	66 °	-121.614966 °		
DWR ID DWR_ST0006_01_s _ 2012_6							
		Comn	nent Coc	de			
V4 : Elderb	perries are	blocking visib	ility and	flood fight of	сара	bility.	
Inspector Comment							
Elderberries are partially blocking visibility.							

No Photos

LM Start	0.40	Rating **	U	Issue No.		16	
LM End	0.46	Issue Type +	En	Location *		WS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory	Category					End	
Item	Encroach	ments		38.8816	38°	38.880795°	
пеш				-121.6146	47°	-121.614427°	
DWR ID	DWR_ST0	006_01_f _ 201	5_16				

Comment Code

DE : Debris

Inspector Comment

The large pipe is still laying along the waterside berm, Fall 2018.

LM Start	0.40	Rating **	U	Issue No.	16 (cont)
LM End	0.46	Issue Type +	En	Location *	WS

Photo 1 of 2: FA_2018_ST0006_471_16_20181003_00018.jpg



View of the pipes and new c-container along the waterside shoulder looking downstream. Fall 2018.

Photo 2 of 2: FA_2018_ST0006_471_16_20180918_00007.jpg



View of the pipes along the waterside berm looking downstream. Spring 2018.

* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating
A: Acceptable N: Not Inspected/Rated M: Ma: Maintenance Deficiency
C: Corrected Ob: Design & System Obsolescence
U: Unacceptable A/W: Acceptable but Monitor & Maintain

** Rating
A: Acceptable M: N: Not Inspected/Rated M: Ma: Maintenance Deficiency
Ob: Design & System Obsolescence
En: Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Nelson Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/18/2018 09/18/2018	Sterling York

LM Start	0.47	Rating **	U	Issue No.		8	
LM End	0.47	Issue Type +	En	Location *		CR	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Encroach	ments		38.8806	64°	38.880664°	
item				-121.614335 °		-121.614335°	
DWR ID DWR_ST0006_01_s _ 2012_8							
		Comn	nent Cod	de			
BU : Buildi	ng						
		Inspect	or Comm	nent			
The building is directly behind the pipes that are laying along the waterside berm. Fall 2018.							

LM Start	0.47	Rating **	U	Issue No.	8 (cont)
LM End	0.47	Issue Type +	En	Location *	CR



View of the building directly behind the pipes on the waterside berm looking downstream. Fall 2018.

Photo 2 of 2 : FA_2018_ST0006_471_8_20180918_00005.jpg



View of the building directly behind the pipes on the waterside berm looking downstream. Spring 2018.